# SEQUENCE LISTING

(2)	INFC	IKMIN I	LON	FUR	SEQ	זט מ	MO: 1	. :									
	(i)	( A ( E ( C	) LE 3) TY 2) ST	NCE C ENGTH YPE: PRANE DPOLC	H: DEDNE		2107 Nucl	eic ole	acid	ł							
	(i.i	) MC	DLECU	JLE 1	YPE:	:	CDNA	A									
	iv) ,			NAL S RGANI		CE:	Huma	an									
	(xi	) SI	EQUE1	NCE I	DESCE	RIPTI	EON:	SEÇ	Q ID	NO:	1:						
GGC1	rccti	CAC (	CCAC	CCGG	AG AC	CTTT	rttt	C GAZ	AAGG2	AAAC	TAGO	GGAG(	GGA (	GGGA	GAGGGA		60
GAGA	AGGGP	AGA I	AAAC	gaago	GG GZ	AGCT(	CGTC	C ATO	CCAT'	rgaa	GCA	CAGT	rca (		rg et	1	L15
	TTA Leu															1	L63
	GGG Gly															2	211
	TGC Cys 35															2	259
	GGC Gly															3	307
	GAG Glu															3	355
	AAC Asn															4	103
	CCC Pro															4	151
	ATT Ile	Arg			Arg		Ala					Lys				4	199

					AGT Ser 135											547
					GCT Ala											595
					TTT Phe											643
					GAT Asp											691
					TTT Phe											739
					GGA Gly 215											787
					GGA Gly											835
					GAA Glu											883
					ATC Ile											931
					AAT Asn											979
Pro	Asp	Lys	Ile	Pro	CCA Pro 295	Pro	Thr	Arg	Pro		Pro					1027
CAC His	CGC Arg	TCT Ser	ATT Ile	CCT Pro 310	CCG Pro	GCT Ala	GAC Asp	CCA Pro	AGG Arg 315	AAA Lys	AAT Asn	GAC Asp	AGG Arg	CCA Pro 320	AAA Lys	1075
CCT Pro	CCT Pro	CGG Arg	CCT Pro 325	CCA Pro	ACC Thr	GGC Gly	AGA Arg	CCC Pro 330	TCC Ser	TAT Tyr	CCC Pro	GGA Gly	GCC Ala 335	AAA Lys	CCC Pro	1123
AAC Asn	ATC Ile	TGT Cys 340	GAT Asp	GGG Gly	AAC Asn	TTT Phe	AAC Asn 345	ACT Thr	CTA Leu	GCT Ala	ATT Ile	CTT Leu 350	CGT Arg	CGT Arg	GAG Glu	1171

TTT Phe 355									1219
ATG Met									1267
CCT Pro									1315
TTT Phe									1363
GGT Gly									1411
GGT Gly 435									1459
TTC Phe									1507
GAC Asp									1555
TCT Ser									1603
TAC Tyr									1651
GAA Glu 515			Ser	Leu	Lys				1699
GGA Gly									1747
GAC Asp									1795
GCT Ala									1843

								Arg						CAC His			1891
			AAA Lys								TGAT	GTAG	GG '	TTTT	PTCT:	rC	1944
TTTC	TTTC	TT I	TGCA	\GGAG	TT TT	GTGG	STAAC	TTC	SAGAT	TCA	AGAC	CAAGA	.GC '	TGTT	ATGCT	rG	2004
TTTC	CTAG	CT A	AGGAG	CAGG	GC TI	GTGG	GCAGC	CTO	SATTO	CGGG	GCTG	SACCT	TT (	CAAA	CCAG	AG	2064
GGTI	GCTT	'GG T	CCTC	SCACA	AT GA	GTGC	GAAAT	ACA	ACTCA	ATGG	GGA						2107

#### (2) INFORMATION FOR SEQ ID NO: 2:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH:

604

(B) TYPE:

Amino acid

- (ii) MOLECULE TYPE:
- Protein
- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM:

Human

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

Met Ile Leu Leu Thr Phe Ser Thr Gly Arg Arg Leu Asp Phe Val His 1 5 10 15

His Ser Gly Val Phe Phe Leu Gln Thr Leu Leu Trp Ile Leu Cys Ala 20 25 30

Thr Val Cys Gly Thr Glu Gln Tyr Phe Asn Val Glu Val Trp Leu Gln 35 40 45

Lys Tyr Gly Tyr Leu Pro Pro Thr Ser Pro Arg Met Ser Val Val Arg 50 55 60

Ser Ala Glu Thr Met Gln Ser Ala Leu Ala Ala Met Gln Gln Phe Tyr 65 70 75 80

Gly Ile Asn Met Thr Gly Lys Val Asp Arg Asn Thr Ile Asp Trp Met 85 90 95

Lys Lys Pro Arg Cys Gly Val Pro Asp Gln Thr Arg Gly Ser Ser Lys 100 105 110

Phe His Ile Arg Arg Lys Arg Tyr Ala Leu Thr Gly Gln Lys Trp Gln 115 120 125

His Lys His Ile Thr Tyr Ser Ile Lys Asn Val Thr Pro Lys Val Gly 130 135 140

Asp Pro Glu Thr Arg Lys Ala Ile Arg Arg Ala Phe Asp Val Trp Gln 145 150 155 . 160

Asn Val Thr Pro Leu Thr Phe Glu Glu Val Pro Tyr Ser Glu Leu Glu
165 170 175

Asn Gly Lys Arg Asp Val Asp Ile Pro Ile Ile Phe Ala Ser Gly Phe 180 185 190

His Gly Asp Ser Ser Pro Phe Asp Gly Glu Gly Gly Phe Leu Ala His 195 200 205

Ala Tyr Phe Pro Gly Pro Gly Ile Gly Gly Asp Thr His Phe Asp Ser 210 215 220

Asp Glu Pro Trp Thr Leu Gly Asn Pro Asn His Asp Gly Asn Asp Leu 225 230 235 240

Phe Leu Val Ala Val His Glu Leu Gly His Ala Leu Gly Leu Glu His 245 250 255

Ser Asn Asp Pro Thr Ala Ile Met Ala Pro Phe Tyr Gln Tyr Met Glu 260 265 270 `

Gln Thr Leu Gln Leu Pro Asn Asp Asp Tyr Arg His Gln Arg Tyr Met 275 280 285

Ser Pro Asp Lys Ile Pro Pro Pro Thr Arg Pro Leu Pro Thr Val Pro 290 295 300

Pro His Arg Ser Ile Pro Pro Ala Asp Pro Arg Lys Asn Asp Arg Pro 305 310 315 320

Lys Pro Pro Arg Pro Pro Thr Gly Arg Pro Ser Tyr Pro Gly Ala Lys 325 330 335

Pro Asn Ile Cys Asp Gly Asn Phe Asn Thr Leu Ala Ile Leu Arg Arg 340 345 350

Glu Met Phe Val Phe Lys Asp Gln Trp Phe Trp Arg Val Arg Asn Asn 355 360 365

Arg Val Met Asp Gly Tyr Pro Met Gln Ile Thr Tyr Phe Trp Arg Gly 370 375 380

Leu Pro Pro Ser Ile Asp Ala Val Tyr Glu Asn Ser Asp Gly Asn Phe 375 390 395 400

Val Phe Phe Lys Gly Asn Lys Tyr Trp Val Phe Lys Asp Thr Thr Leu 405 410 415

Gln Pro Gly Tyr Pro His Asp Leu Ile Thr Leu Gly Ser Gly Ile Pro 420 425 430

Pro His Gly Ile Asp Ser Ala Ile Trp Trp Glu Asp Val Gly Lys Thr 435 440 445

Tyr Phe Phe Lys Gly Asp Arg Tyr Trp Arg Tyr Ser Glu Glu Met Lys 450 455 460

Thr Met Asp Pro Gly Tyr Pro Lys Pro Ile Thr Val Trp Lys Gly Ile 455 470 475 480

Pro Glu Ser Pro Gln Gly Ala Phe Val His Lys Glu Asn Gly Phe Thr 485 490 495

Tyr Phe Tyr Lys Glu Gly Val Leu Glu Ile Gln Thr Thr Arg Tyr Ser 500 505 510

Arg Leu Glu Pro Gly His Pro Arg Ser Ile Leu Lys Asp Leu Ser Gly 515 520 525

Cys Asp Gly Pro Thr Asp Arg Val Lys Glu Gly His Ser Pro Pro Asp 530 535 540

Asp Val Asp Ile Val Ile Lys Leu Asp Asn Thr Ala Ser Thr Val Lys 545 550 560

Ala Ile Ala Ile Val Ile Pro Cys Ile Leu Ala Leu Cys Leu Leu Val 565 570 575

Leu Val Tyr Thr Val Phe Gln Phe Lys Arg Lys Gly Thr Pro Arg His 580 585 590

Ile Leu Tyr Cys Lys Arg Ser Met Gln Glu Trp Val 595 600 604

#### (2) INFORMATION FOR SEQ ID NO: 3:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH:

20

(B) TYPE:

Nucleic acid

- (C) STRANDEDNESS: Single
- (D) TOPOLOGY:

Linear

(ii) MOLECULE TYPE:

Other nucleic acid Synthetic DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

#### SGNVVNGCWG AYATMRTSAT

20

## (2) INFORMATION FOR SEQ ID NO: 4:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH:

27

(B) TYPE:

Nucleic acid

- (C) STRANDEDNESS: Single
- (D) TOPOLOGY:

Linear

(ii) MOLECULE TYPE:

Other nucleic acid Synthetic DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: YTCRTSNTCR TCRAARTGRR HRTCYCC 27 (2) INFORMATION FOR SEQ ID NO: 5: SEQUENCE CHARACTERISTICS: (A) LENGTH: (B) TYPE: Amino acid (C) TOPOLOGY: Linear (ii) MOLECULE TYPE: Peptide (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5: Gln Thr Arg Gly Ser Ser Lys Phe His Ile Arg Arg Lys Arg 1 (2) INFORMATION FOR SEQ ID NO: 6: SEQUENCE CHARACTERISTICS: (A) LENGTH: (B) TYPE: Amino acid (C) TOPOLOGY: Linear (ii) MOLECULE TYPE: Peptide (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6: Glu Glu Val Pro Tyr Ser Glu Leu Glu Asn Gly Lys Arg Asp 1 5 (2) INFORMATION FOR SEQ ID NO: 7: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 (B) TYPE: Amino acid (C) TOPOLOGY: Linear (ii) MOLECULE TYPE: Peptide (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

Pro Thr Ser Pro Arg Met Ser Val Val Arg Ser Ala Glu Thr Met Gln
1 10 15

Ser Ala 18

- (2) INFORMATION FOR SEQ ID NO: 8:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH:

Amino acid

(B) TYPE:(C) TOPOLOGY:

Linear

(ii) MOLECULE TYPE:

Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

Thr Leu Gly Asn Pro Asn His Asp Gly Asn Asp Leu Phe Leu

### SEQUENCE LISTING

- (1) GENERAL INFORMATION
  - (i) APPLICANT: Motoharu SEIKI et al.
  - (ii) TITLE OF INVENTION: NOVEL PROTEIN AND MONOCLONAL ANTIBODY SPECIFIC THERETO
  - (iii) NUMBER OF SEQUENCES: 14
  - (iv) CORRESPONDENCE ADDRESS:
    - (A) ADDRESSEE: Wenderoth, Lind & Ponack, L.L.P.
    - (B) STREET: 2033 K Street, N.W., Suite 800
    - (C) CITY: Washington
    - (D) STATE: D.C.
    - (E) COUNTRY: U.S.A.
    - (F) ZIP: 20006
  - (v) COMPUTER READABLE FORM:
    - (A) MEDIUM TYPE: Diskette, 3.5 inch, 1.44 mb
    - (B) COMPUTER: IBM Compatible
    - (C) OPERATING SYSTEM: MS-DOS
    - (D) SOFTWARE: Wordperfect 5.1
  - (vi) CURRENT APPLICATION DATA:
    - (A) APPLICATION NUMBER: NEW
    - (B) FILING DATE: December 12, 2000
    - (C) CLASSIFICATION:
  - (vi) PRIOR APPLICATION DATA:
    - (A) APPLICATION NUMBER: 09/000,041
    - (B) FILING DATE: February 20, 1998
    - (C) CLASSIFICATION:
  - (vii) PRIOR APPLICATION DATA:
    - (A) APPLICATION NUMBER: PCT/JP96/01956
    - (B) FILING DATE: July 12, 1996
  - (viii) ATTORNEY/AGENT INFORMATION:
    - (A) NAME: Lee Cheng
    - (B) REGISTRATION NUMBER: 40,949
    - (C) REFERENCE/DOCKET NUMBER:
  - (ix) TELECOMMUNICATION INFORMATION:
    - (A) TELEPHONE: 202-721-8200
    - (B) TELEFAX: 202-721-8250
    - (C) TELEX:
- (2) INFORMATION FOR SEQ ID NO: 1:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH:
- 2116
- (B) TYPE:
- Nucleic acid
- (C) STRANDEDNESS: Double
- (D) TOPOLOGY:
- Linear

(ii) MOLECULE TYPE: cDNA

(vi) ORIGINAL SOURCE:

Human (A) ORGANISM:

(xi) SEQUENC	E DESCRIPTION:	SEQ ID NO:	1:								
GGCTCCTTAC CCACCCGGAG ACTTTTTTTT GAAAGGAAAC TAGGGAGGGAGGGAGAGGGA											
GAGAGGGAGA AAACGA	AGGG GAGCTCGTCC	C ATCCATTGAA	GCACAGTTCA CT ATG Met 1	115							
			GAT TTC GTG CAT CAT Asp Phe Val His His 15	163							
TCG GGG GTG TTT T Ser Gly Val Phe P 20	TC TTG CAA ACC he Leu Gln Thr 25	TTG CTT TGG Leu Leu Trp	ATT TTA TGT GCT ACA Ile Leu Cys Ala Thr 30	211							
			GTT TGG TTA CAA AAG Val Trp Leu Gln Lys 45	259							
TAC GGC TAC CTT C Tyr Gly Tyr Leu P 50	CCA CCG ACT GAC Cro Pro Thr Asp 55	CCC AGA ATG Pro Arg Met 60	TCA GTG CTG CGC TCT Ser Val Leu Arg Ser 65	307							
GCA GAG ACC ATG C Ala Glu Thr Met G	AG TCT GCC CTA In Ser Ala Leu 70	GCT GCC ATG Ala Ala Met 75	CAG CAG TTC TAT GGC Gln Gln Phe Tyr Gly 80	355							
ATT AAC ATG ACA G Ile Asn Met Thr G 85	GGA AAA GTG GAC Gly Lys Val Asp	AGA AAC ACA Arg Asn Thr 90	ATT GAC TGG ATG AAG Ile Asp Trp Met Lys 95	403							
AAG CCC CGA TGC G Lys Pro Arg Cys G 100	GGT GTA CCT GAC Gly Val Pro Asp 105	CAG ACA AGA Gln Thr Arg	GGT AGC TCC AAA TTT Gly Ser Ser Lys Phe 110	451							
CAT ATT CGT CGA A His Ile Arg Arg I 115	AAG CGA TAT GCA Lys Arg Tyr Ala 120	TTG ACA GGA Leu Thr Gly	CAG AAA TGG CAG CAC Gln Lys Trp Gln His 125	499							
AAG CAC ATC ACT T Lys His Ile Thr T 130	FAC AGT ATA AAG Tyr Ser Ile Lys 135	AAC GTA ACT Asn Val Thr 140	CCA AAA GTA GGA GAC Pro Lys Val Gly Asp 145	547							
Pro Glu Thr Arg I	AAA GCT ATT CGC Lys Ala Ile Arg 150	CGT GCC TTT Arg Ala Phe 155	GAT GTG TGG CAG AAT Asp Val Trp Gln Asn 160	595							
GTA ACT CCT CTG A Val Thr Pro Leu 1 165	ACA TTT GAA GAA Ihr Phe Glu Glu	GTT CCC TAC Val Pro Tyr 170	AGT GAA TTA GAA AAT Ser Glu Leu Glu Asn 175	643							

		GAT Asp						691
		TTT Phe						739
		GGA Gly 215						787
		GGA Gly						835
		GAA Glu						883
		ATC Ile						931
		CCT Pro						979
		AAG Lys 295						1027
		TCT Ser						1075
		CGG Arg						1123
		TGT Cys						1171
		GTT Val						1219
		GAT Asp 375						1267
		AGT Ser						1315

					AAA Lys											1363
					TAC Tyr											1411
					ATT Ile											1459
					AAG Lys 455											1507
					CCT Pro											1555
					CCT Pro											1603
					AAA Lys											1651
					CCT Pro											1699
					CCA Pro 535											1747
					ATT Ile											1795
					ATT Ile											1843
					ACT Thr											1891
					TGT Cys									TGAT	'GTAGG	1942
GTTT	TTTT	CTT C	CTTTC	CTTTC	CT TI	TGCF	\GGA(	TTT	'GTGG	STAA	CTTG	GAGAI	TTC F	AAGAC	CAAGAG	2002
CTGI	TAT	GCT G	STTTC	CCTAC	GC TA	AGGA	CAG	G CTI	GTGG	GCAG	CCTG	GATTO	CGG G	GCTG	SACCTT	2062
TCAF	ACCA	AGA G	GGTI	GCTC	GG TC	CTGC	CACAT	GAG	TGGA	TAAA	ACAC	CTCAT	GG G	GAA		2116

#### (2) INFORMATION FOR SEQ ID NO: 2:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH:

607

(B) TYPE:

Amino acid

- (C) STRANDEDNESS: Single
- (D) TOPOLOGY:

Linear

(ii) MOLECULE TYPE:

Protein

- (vi) ORIGINAL SOURCE:
  - (A) ORGANISM:

Human

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

Met Ile Leu Leu Thr Phe Ser Thr Gly Arg Arg Leu Asp Phe Val His 1 5 10 15

His Ser Gly Val Phe Phe Leu Gln Thr Leu Leu Trp Ile Leu Cys Ala 20 25 30

Thr Val Cys Gly Thr Glu Gln Tyr Phe Asn Val Glu Val Trp Leu Gln 35 40 45

Lys Tyr Gly Tyr Leu Pro Pro Thr Asp Pro Arg Met Ser Val Leu Arg 50 55 60

Ser Ala Glu Thr Met Gln Ser Ala Leu Ala Ala Met Gln Gln Phe Tyr 65 70 75 80

Gly Ile Asn Met Thr Gly Lys Val Asp Arg Asn Thr Ile Asp Trp Met 85 90 95

Lys Lys Pro Arg Cys Gly Val Pro Asp Gln Thr Arg Gly Ser Ser Lys 100 105 110

Phe His Ile Arg Arg Lys Arg Tyr Ala Leu Thr Gly Gln Lys Trp Gln 115 120 125

His Lys His Ile Thr Tyr Ser Ile Lys Asn Val Thr Pro Lys Val Gly 130 135 140

Asp Pro Glu Thr Arg Lys Ala Ile Arg Arg Ala Phe Asp Val Trp Gln 145 150 155

Asn Val Thr Pro Leu Thr Phe Glu Glu Val Pro Tyr Ser Glu Leu Glu 165 170 175

Asn Gly Lys Arg Asp Val Asp Ile Thr Ile Ile Phe Ala Ser Gly Phe 180 185 190

His Gly Asp Ser Ser Pro Phe Asp Gly Glu Gly Gly Phe Leu Ala His
195 200 205

Ala Tyr Phe Pro Gly Pro Gly Ile Gly Gly Asp Thr His Phe Asp Ser

210 215 220 Asp Glu Pro Trp Thr Leu Gly Asn Pro Asn His Asp Gly Asn Asp Leu 230 235 Phe Leu Val Ala Val His Glu Leu Gly His Ala Leu Gly Leu Glu His 245 250 Ser Asn Asp Pro Thr Ala Ile Met Ala Pro Phe Tyr Gln Tyr Met Glu Thr Asp Asn Phe Lys Leu Pro Asn Asp Leu Gln Gly Ile Gln Lys Ile Tyr Gly Pro Pro Asp Lys Ile Pro Pro Pro Thr Arg Pro Leu Pro Thr Val Pro Pro His Arg Ser Ile Pro Pro Ala Asp Pro Arg Lys Asn 315 Asp Arg Pro Lys Pro Pro Arg Pro Pro Thr Gly Arg Pro Ser Tyr Pro 330 Gly Ala Lys Pro Asn Ile Cys Asp Gly Asn Phe Asn Thr Leu Ala Ile Leu Arg Arg Glu Met Phe Val Phe Lys Asp Gln Trp Phe Trp Arg Val 355 360 Arg Asn Asn Arg Val Met Asp Gly Tyr Pro Met Gln Ile Thr Tyr Phe Trp Arg Gly Leu Pro Pro Ser Ile Asp Ala Val Tyr Glu Asn Ser Asp Gly Asn Phe Val Phe Phe Lys Gly Asn Lys Tyr Trp Val Phe Lys Asp 405 410 Thr Thr Leu Gln Pro Gly Tyr Pro His Asp Leu Ile Thr Leu Gly Ser 425 Gly Ile Pro Pro His Gly Ile Asp Ser Ala Ile Trp Trp Glu Asp Val Gly Lys Thr Tyr Phe Phe Lys Gly Asp Arg Tyr Trp Arg Tyr Ser Glu Glu Met Lys Thr Met Asp Pro Gly Tyr Pro Lys Pro Ile Thr Val Trp 470 475 Lys Gly Ile Pro Glu Ser Pro Gln Gly Ala Phe Val His Lys Glu Asn Gly Phe Thr Tyr Phe Tyr Lys Gly Lys Glu Tyr Trp Lys Phe Asn Asn Gln Ile Leu Lys Val Glu Pro Gly His Pro Arg Ser Ile Leu Lys Asp

520 525 515 Phe Met Gly Cys Asp Gly Pro Thr Asp Arg Val Lys Glu Gly His Ser 535 Pro Pro Asp Asp Val Asp Ile Val Ile Lys Leu Asp Asn Thr Ala Ser 550 545 Thr Val Lys Ala Ile Ala Ile Val Ile Pro Cys Ile Leu Ala Leu Cys Leu Leu Val Leu Val Tyr Thr Val Phe Gln Phe Lys Arg Lys Gly Thr 585 Pro Arg His Ile Leu Tyr Cys Lys Arg Ser Met Gln Glu Trp Val 595 600 (2) INFORMATION FOR SEQ ID NO: 3: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 (B) TYPE: Nucleic acid (C) STRANDEDNESS: Single (D) TOPOLOGY: Linear (ii) MOLECULE TYPE: Other nucleic acid Synthetic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3: SGNVVNGCWG AYATMRTSAT 20 (2) INFORMATION FOR SEQ ID NO: 4: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 Nucleic acid (B) TYPE: (C) STRANDEDNESS: Single (D) TOPOLOGY: Linear Other nucleic acid (ii) MOLECULE TYPE: Synthetic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: 27 YTCRTSNTCR TCRAARTGRR HRTCYCC (2) INFORMATION FOR SEQ ID NO: 5: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 (B) TYPE: Amino acid (C) STRANDEDNESS: Single

(D) TOPOLOGY: Linear

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(ii) MOLECULE TYPE: Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

Gln Thr Arg Gly Ser Ser Lys Phe His Ile Arg Arg Lys Arg 5 10 1

- (2) INFORMATION FOR SEQ ID NO: 6:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH:

14

- (B) TYPE:
- Amino acid
- (C) STRANDEDNESS: Single
  - (D) TOPOLOGY:

Linear

- (ii) MOLECULE TYPE: Peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

Glu Glu Val Pro Tyr Ser Glu Leu Glu Asn Gly Lys Arg Asp 5

- (2) INFORMATION FOR SEQ ID NO: 7:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 18

(B) TYPE:

Amino acid

- (C) STRANDEDNESS: Single
  - (D) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

Pro Thr Ser Pro Arg Met Ser Val Val Arg Ser Ala Glu Thr Met Gln

Ser Ala

- (2) INFORMATION FOR SEQ ID NO: 8:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 14

- (B) TYPE:
- Amino acid
- (D) STRANDEDNESS: Single
  - (C) TOPOLOGY: Linear
- (ii) MOLECULE TYPE: Peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

Thr Leu Gly Asn Pro Asn His Asp Gly Asn Asp Leu Phe Leu 1.0

(2) INFORMATION FOR SEQ ID NO: 9:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH:

(B) TYPE:

Amino acid

(D) STRANDEDNESS: Single

(C) TOPOLOGY:

Linear

(ii) MOLECULE TYPE: Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

Gly Glu Ala Asp Ile Leu Val

(2) INFORMATION FOR SEQ ID NO: 10:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH:

9

(B) TYPE:

Amino acid

(D) STRANDEDNESS: Single

(C) TOPOLOGY:

Linear

(ii) MOLECULE TYPE: Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

Gly Asp Ala His Phe Asp Asp Glu

(2) INFORMATION FOR SEQ ID NO: 11:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH:

(B) TYPE:

Amino acid

(D) STRANDEDNESS: Single

(C) TOPOLOGY: Linear

(ii) MOLECULE TYPE: Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

Gly Glu Ala Asp Ile Met Ile

(2) INFORMATION FOR SEQ ID NO: 12:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH:

(B) TYPE:

Amino acid

(D) STRANDEDNESS: Single

(C) TOPOLOGY: Linear

(ii) MOLECULE TYPE: Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

Pro Arg Cys Gly Val Pro Asp 5

- (2) INFORMATION FOR SEQ ID NO: 13:
  - (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 24

(B) TYPE:

Amino Acid

(C) STRANDEDNESS: Single

(D) TOPOLOGY:

Linear

(ii) MOLECULE TYPE: Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

Ala Ile Ala Ile Val Ile Pro Cys Ile Leu Ala Leu Cys Leu Leu 10

Val Leu Val Tyr Thr Val Phe Gln Phe 20

- (2) INFORMATION FOR SEQ ID NO: 14:
  - (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 4

(B) TYPE:

Amino Acid

(C) STRANDEDNESS: Single

(D) TOPOLOGY:

Linear

(ii) MOLECULE TYPE: Peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

Arg Xaa Lys Arg